BRUHAT BANAGLORE MAHANAGARA PALIKE

Excecutive Engineer Dasarahalli Division

DETAILED ESTIMATE

Name of Work:Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division

Job Code: 014-18-000061 | **Estimate Amount : 52.13**

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions L in m	Dimensions B in m	Dimensions D in m	Quantity	Rate in Rs.	Total Amount in Rs
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 (P.No.6 I.No.2.3)								
	Basic Rate	179.00							
	Local calculation for 13.3 km (2x1.28x13.3)+57=91.048	91.05							
	AW 6%	10.74							
	Total	280.79							
	New RCC Drain								
	Soap factory Layout Connecting Road	1	200	1.1	0.9	198.00			
	Road Work								
	Soap factory Layout Road work								
	1st cross	2	192.62	0.80	0.15	46.23			
	1st Main	2	167.62	0.80	0.15	40.23			
				Total		**284.46**	**280.79**	**cum**	**79873**
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.13/4.3)								
	Basic Rate:	5102.00							
	Area Weightage 6%	306.12							
	Total	**5408.12**							
	New RCC Drain								
	Soap factory Layout Connecting Road	2	200	1.1	0.15	66.00			
						66.00	**5408.12**	**cum**	**356936**
3	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No. 17 / Item No.4.36)								
	Basic Rate	358.00							
	AW@ 6%	21.48							
	Total	**379.48**							
	New RCC Drain								
	Soap factory Layout Connecting Road								
	Raft	2x1	200		0.15	60.00			
	For Drians Walls	2x2	200		0.60	480.00			
				Total		**540.00**	**379.48**	**Sqm**	**204919**

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	Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed 2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
	Basic Rate:	5659.00							
	Area Weightage 6%	339.54							
	Total	**5998.54**							
	Rcc Drain								
	Raft	1x1	200	0.9	0.15	27.00			
	For Drians Walls								
	Raft	2x1	200	0.15	0.6	36.00			
					Total	**63.00**	**5998.54**	**Cum**	**377908**
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (TMT bars FC 500)(P.18/4.46.2) **Issue rate date : 02.11.2021 till now**								
	Basic Rate	87417.00							
	Area Weightage 6%	5245.02							
	Total	**92662.02**							
	For Drain								
	Qty @60Kg/Cum		0.060	63.00		3.78			
					Total	**3.78**	**92662.02**	**T**	**350262**
5	Providing and and fixing Precast Concrete slab 10 CM thick witth all lead and lift as per specification **(Data Rate Approved) 2018-19**								
	Basic Rate:	2337.00							
	Total	**2337.00**							
	Rcc Drain								
		1	200	0.9		180.00			
					Total	**180.00**	**2337.00**	**sqm**	**420660**
7	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
	Basic Rate	6.00							
	AW@ 6%	0.36							
	Total	**6.36**							
	Camber Correction of road								
	Soap factory Layout Road work								
	1st cross	1	192.62	4.80		924.58			
	1st Main	1	167.62	5.00		838.10			
					Total	**1761.32**	**6.36**	**Sqm**	**11202**

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	Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
8	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18)								
	Basic Rate	**1888.00**							
	AW 6%	**113.28**							
	Total	**2001.28**							
	Camber Correction of road								
	Soap factory Layout								
	Road work								
	1st cross	1	192.62	4.80	0.15	138.69			
	1st Main	1	167.62	5.00	0.15	125.72			
						264.20	**2001.28**	**Cum**	**528738**
9	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No.158 I.No.21.6)**Issue Basic Rate Date;02.11.2021 to till now**								
	Basic Rate	**32.00**							
	AW 6%	**1.92**							
	Total	**33.92**							
	Camber Correction of road								
	Soap factory Layout								
	Road work								
	1st cross	1	192.62	4.80		924.58			
	1st Main	1	167.62	5.00		838.10			
						1761.32	**33.92**	**Sqm**	**59744**
10	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No.158 I.No.21.2)								
	Basic Rate	**6.00**							
	AW 6%	**0.36**							
	Total	**6.36**							
	Camber Correction of road								
	Soap factory Layout								
	Road work								
	1st cross	1	192.62	4.80		924.58			
	1st Main	1	167.62	5.00		838.10			
						1761.32	**6.36**	**Sqm**	**11202**
11	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								

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	Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
	Issue Basic Rate Date:02.11.2021 to till now	12.00							
	AW 6%	0.72							
	Total	12.72							
	Soap factory Layout								
	1st cross	1	192.62	4.80		924.58			
	1st Main	1	167.62	5.00		838.10			
						1761.32	12.72	Sqm	22404
12	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.161 I.No.21.17.6) **Issue Basic Rate Date;02.11.2021 to till now**									
	Basic Rate	8062.00							
	AW 6%	483.72							
	Total	8545.72							
	Camber Correction of road								
	Soap factory Layout Road work								
	1st cross	2	192.62	4.80	0.05	92.46			
	1st Main	2	167.62	5.00	0.05	83.81			
						176.13	8545.72	Cum	1505158
13	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 (P.No.158 I.No.21.23.6) **Issue Basic Rate Date;02.11.2021 to till now**									
	Basic Rate	9617.00							
	AW 6%	577.02							
	Total	10194.02							
	Soap factory Layout Road work								
	1st cross	1	192.62	4.80	0.03	27.74			
	1st Main	1	167.62	5.00	0.03	25.14			
						52.84	10194.02	Cum	538652
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No.185 I.No.24.15)								
	Basic Rate	429.00							
	AW 6%	25.74							
	Total	454.74							

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Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
			L in m	B in m	D in m			
Soap factory Layout Road work								
1st cross	2	192.62		0.10	18.52			
2nd cross 1st Main	2	~~207.02~~ 167.62		0.10	21.52			
					64.05	454.74	Sqm	29125
							Sub Total	4318326.50
							Add 12% Towards GST Charges	518199.18
							Tender premium 3%	129549.79
							& Miscellaneous Charges	4799.34
							Grand Total	5000000.00

Certificate:-
1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2018-19
4. That the provisions made in the estimate are necessary and quite essential.

Assistant Engineer
Ward No.14

Assistant Executive
Dasarahalli Sub-Division

Executive Engineer
Dasarahalli Division

ADMINISTRATIVELY SANCTIONED FOR
(Rupees... Fifty lakhs only
Under the Head of Account... P-0190
Registered as no EE/DD/AS/85/21-22 Subject to conditions contained in Enclosed Memo
No EE/DD/AS/85/21-22 Dt 13-01-22
Exe. Engr
JE/AE. (DASARAHALLI Div.)

Technically Sanctione for Rs... 50.00 Lakh
Rs. In words... Rupees fifty lakhs only
Under ... P-0190
Job Code No 014-18-000061
Registered as CE No... TS/14-01-2021
to conditions contained in Enclosed Memo
No. CE/DZ/TS/TS/2021-22 Dt 14-01-2022
AE/JE. TA CE(D)